

ottobock.

Kimba neo

Service Manual



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1 Introduction

1.1 Foreword

Regular maintenance is important – it improves safety and increases the lifespan of the product. All Mobility products should be inspected and serviced once a year. However, we recommend inspecting, readjusting, and if necessary servicing the product every **6 months** if the product is used frequently, by growing children or by users with changing clinical conditions. Only use original spare parts for all service and maintenance work. The service and maintenance tasks described here should only be completed by trained, qualified personnel and not by the user of the device. This service and maintenance manual refers to the respective spare parts catalogues and the instructions for use of the described products. Please use these documents together. Use the maintenance schedule (checklist) as a template for making copies. Retain completed maintenance schedules and provide the customer with a copy.

	Instructions for Use (Qualified Personnel)	Instructions for Use (User)
Kimba neo	647G771=*	647G770=*

1.2 Support

Your national Ottobock team will be happy to answer any technical questions. The contact addresses and telephone numbers can be found on the back inside cover of the service manual.

1.3 Product Overview



Kimba Neo – outdoor mobility base with multifunctional seating unit and "swiveling" front wheels option

1	Plug-on rear wheel	6	Angle-adjustable backrest
2	"Swiveling" front wheel (option)	7	Adjustable push bar
3	Front lashing ring	8	Release handle, folding mechanism
4	Adjustable footrest	9	Rear lashing ring
5	Removable seat with lateral supports	10	Suspension



Kimba neo – outdoor mobility base with multifunctional seating unit and "swiveling" front wheels option

1	Plug-on rear wheel	6	Adjustable push bar
2	"Swiveling" front wheel (option)	7	Release handle, folding mechanism
3	Swivel lock	8	Separate seat tilt feature on frame
4	Front lashing ring	9	Rear lashing ring
5	Seat adapter	10	Suspension



Kimba neo – outdoor mobility base with "fixed" front wheels

1	Plug-on rear wheel	5	Adjustable push bar
2	Plug-on "fixed" front wheel	6	Release handle, folding mechanism
3	Front lashing ring	7	Suspension
4	Seat adapter	8	Rear lashing ring

2 Safety

2.1 Explanation of Warning Symbols

⚠ WARNING	Warnings regarding possible risks of severe accident or injury.
⚠ CAUTION	Warnings regarding possible risks of accident or injury.
ℹ NOTICE	Warnings regarding possible technical damage.

2.2 General Safety Instructions

CAUTION

Failure to observe installation instructions

Pinching, crushing due to installation errors

- ▶ Do not reach between force-actuated surfaces during installation work.

CAUTION

Use of unsuitable tools

Pinching, crushing or damaging the product

- ▶ When working, use only tools that are suitable for the conditions at the workplace and whose proper use ensures safety and health protection.

CAUTION

Re-use of self-locking nuts

Unintended loosening of the screw connections

- ▶ Always replace self-locking nuts with new self-locking nuts after disassembly.

NOTICE

Tipping or falling of the product

Damage to the product

- ▶ When you work on the product, secure it so that it cannot tip over or fall over.
- ▶ Use a clamping device to secure the product for all work at a workbench.

3 Service Work

3.1 General Information

INFORMATION

Read the service manual before starting work. Familiarise yourself with the functions of the product prior to inspection and use. In order to do so, you can request this service manual and other documentation from the manufacturer (see the overview of national Ottobock branches on the inside of the back cover) or download from our homepage www.ottobock.de or www.ottobock.com.

INFORMATION

Clean and disinfect the product before commencing service work.

Observe all care instructions and product-specific inspection instructions in the instructions for use.

INFORMATION

Many screw connections utilise screws and nuts equipped with thread lock. If you loosen screw connections, be sure to replace the respective nut or screw with one equipped with a new thread lock. If new screws or nuts with thread lock are not available, apply a medium-strength liquid thread locking compound (such as Loctite® 241 or Euro Lock A24.20) to the existing screws.

3.2 Instructions for Adjustment

WARNING

Failure to verify tipping resistance

Risk of the user falling or tipping over

- ▶ Changing the settings can lead to instability of the system as a whole. Verify tipping resistance after any changes to the settings.

The sections that follow describe the replacement and retrofitting of standard and option parts on the product shown on the cover.

All instructions concerning the adjustment of the parts installed are included in the Instructions for Use (qualified personnel) – see the section "Foreword" for the order number.

3.3 Maintenance Schedule

Maintenance schedule as a template for copying: see Page 40.

3.4 Required Tools and Accessories

The following tools are required in order to perform the service work:

- Reversible ratchet handle wrench and sockets (size: 8 – 24)
- Torque wrench (measurement range 5 - 50 Nm)
- Wrench (size: 8 – 24)¹⁾
- Allen wrench (size: 2.5 – 6)²⁾
- Screwdriver (blade width: 2.5/3.5/5 mm)
- Phillips head screwdriver (size: 2)
- Hammer (approx. 300 g); soft-faced hammer
- Pliers: cutting pliers, combination pliers, snap ring pliers
- Rivet gun (for rivets up to $\varnothing$ 5 mm)
- Pin punch, $\varnothing$ 3/4/5/6 mm
- Drill/twist drill $\varnothing$ 3.2/5/5.2/6 mm
- Stanley knife with sickle hooked blade and standard blade
- Tyre mounting levers and inner tube repair kit*
- Workbench and vice with plastic jaws and rubber insert
- Measurement equipment: rule, spirit level
- Liquid thread locker, "medium" and "strong"

¹⁾ Included in 481C08=ST010 Tool Set

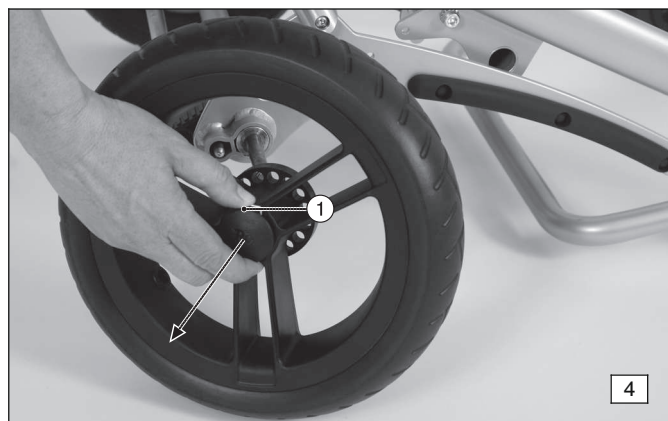
²⁾ Size 3 – 6 contained in the 481C08=ST010 Tool Set

3.5 Outdoor Mobility Base

3.5.1 Rear Wheels

3.5.1.1 Replacing the Rear Wheel

- 1) Release the wheel lock.
- 2) Press down the lock on the rear wheels (see Fig. 4).
- 3) Replace and reinstall the wheel. The locking mechanism must engage audibly.

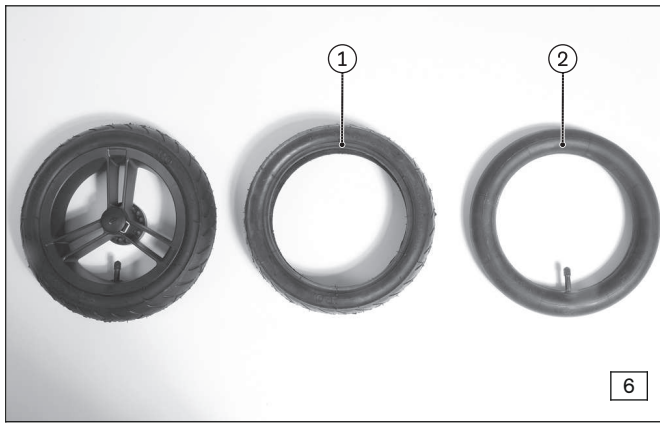


3.5.1.2 Replacing the Casing

Replacing the casing on the rear wheel (see Fig. 6, Pos. 1) corresponds to replacing the casing on the caster wheel: see Page 11.

3.5.1.3 Replacing the Tube (Pneumatic Tyre)

Replacing the tube on the rear wheel (see Fig. 6, Pos. 2) corresponds to replacing the tube on the caster wheel: see Page 12.



3.5.2 Front Wheels

3.5.2.1 Replacing a "Fixed" Front Wheel

- 1) After pushing down the locking mechanism, pull the front wheel off to the outside and replace it (not illustrated).
- 2) Slide on the front wheel. The locking mechanism must engage audibly.

3.5.2.2 Replacing a "Swivelling" Front Wheel

- 1) Put the frame on its side.
- 2) Remove the caster wheel axle in the caster fork (see Fig. 7).
- 3) Remove and replace the caster wheel (see Fig. 8).
- 4) Tighten the caster wheel axle to a torque of **9 Nm**.



3.5.2.3 Replacing the Caster Fork

- 1) Remove the caster wheel (see the preceding section).
- 2) Loosen the caster fork mounting screw (see Fig. 9).
- 3) Remove and replace the caster fork (see Fig. 10).
- 4) Install the caster fork with the supplied mounting materials.
- 5) Tighten the caster fork to a torque of **25 Nm**.



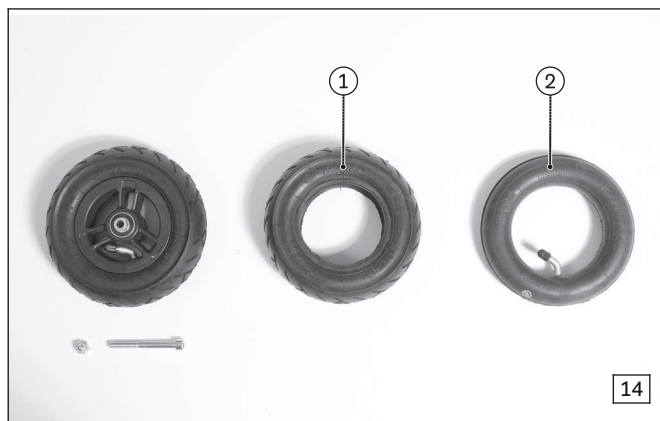
3.5.2.4 Replacing the Swivel Lock

- 1) Remove the caster wheel and caster fork (see the preceding sections; see Fig. 11).
- 2) Slide the swivel lock off the front frame and replace it (see Fig. 12).
- 3) Slide the swivel lock onto the front frame.
- 4) Install the caster fork and caster wheel (see the preceding section).



3.5.2.5 Replacing the Casing

- 1) Remove the wheel (see Page 10) and let out the air if required.
- 2) Using a tyre lever, remove the casing from the rim (see Fig. 13).
- 3) Remove the tube.
- 4) Replace the casing (see Fig. 14, Pos. 1).
- 5) Fill the inner tube with a small amount of air before mounting in order to avoid damage and pinching.
- 6) Install the casing on the rim with a tyre lever.
- 7) Reinstall the wheel (see Page 10).



3.5.2.6 Replacing the Tube (Pneumatic Tyre)

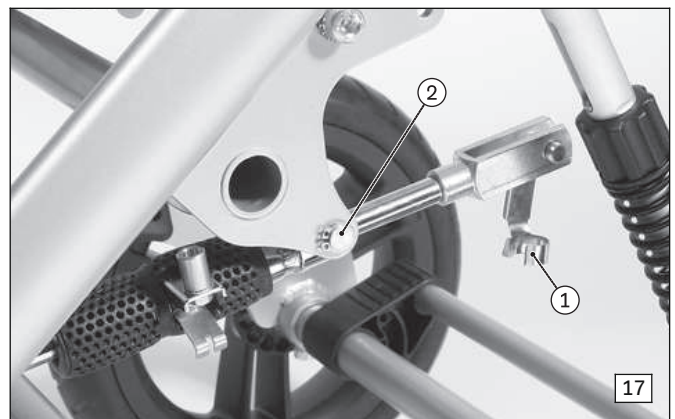
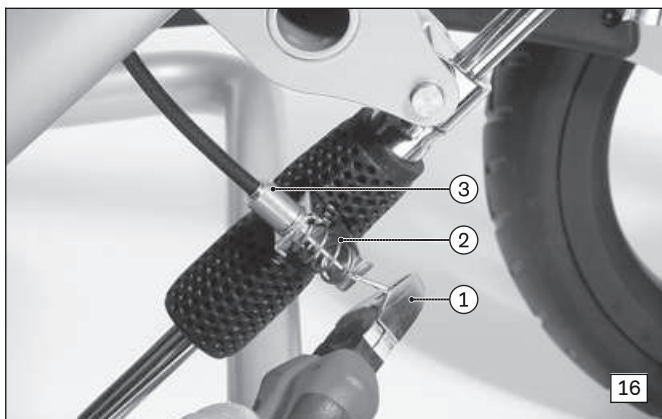
- 1) Remove the wheel (see Page 10) and let out the air if required.
- 2) Using a tyre lever, remove the casing from the rim (see Page 11).
- 3) Replace or repair the tube (see Fig. 14, Pos. 2; see Fig. 15).
- 4) Fill the inner tube with a small amount of air before mounting in order to avoid damage and pinching.
- 5) Install the casing on the rim with a tyre lever.
- 6) Reinstall the wheel (see Page 10).

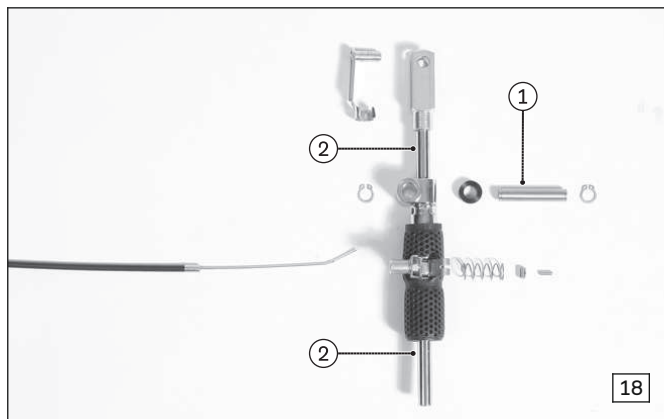


3.5.3 Seat Adapter

3.5.3.1 Replacing the Seat Adjustment Mechanism (Porter Cylinder)

- 1) Remove the Bowden cable from the porter cylinder:
 - Cut off the cable end sleeve (see Fig. 16, Pos. 1).
 - Loosen the screw die.
 - Remove the spring and Bowden cable guide (see Fig. 16, Pos. 2/3).
 - Unthread the Bowden cable on the Porter cylinder.
- 2) Unlock and remove the spring folding bolt on the Porter cylinder (see Fig. 17, Pos. 1).
- 3) Remove the retaining ring (see Fig. 17, Pos 2) and the bearing journal.
- 4) Remove and replace the Porter cylinder.
- 5) Install the Porter cylinder with the mounting materials provided (see Fig. 18). Note the following:
 - Apply oil/grease to the bearing journal prior to installation (see Fig. 18, Pos 1).
 - The piston rod of the Porter cylinder must not be lubricated (see Fig. 18, Pos 2).
 - Note the Bowden cable guide between the seat adjustment mechanism and the Porter cylinder (see Fig. 19, Pos. 1).
- 6) Conduct a functional test. Pay particular attention to the functionality of the seat tilt feature and the seat tilt mechanism in the tilted position.



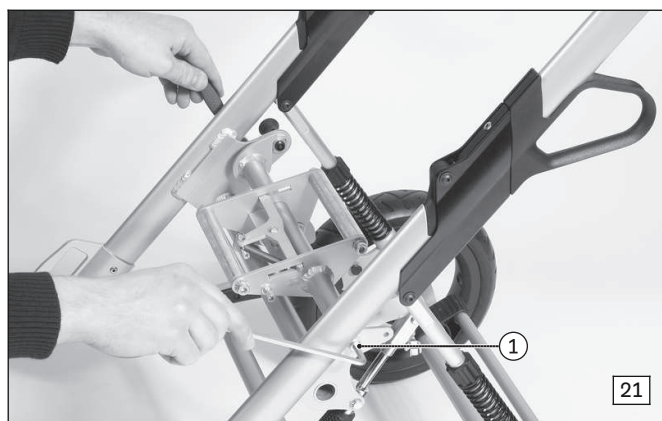


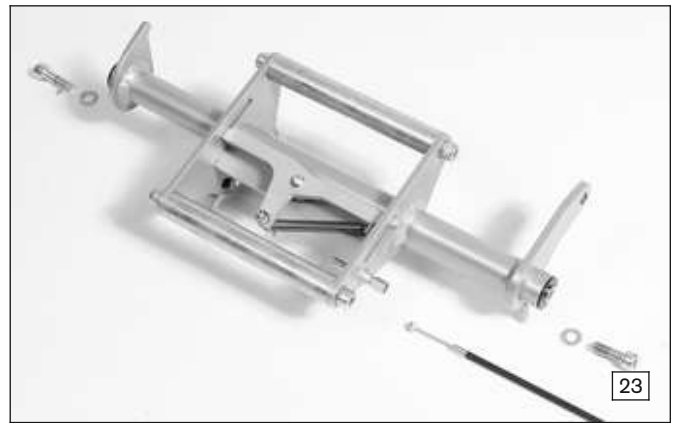
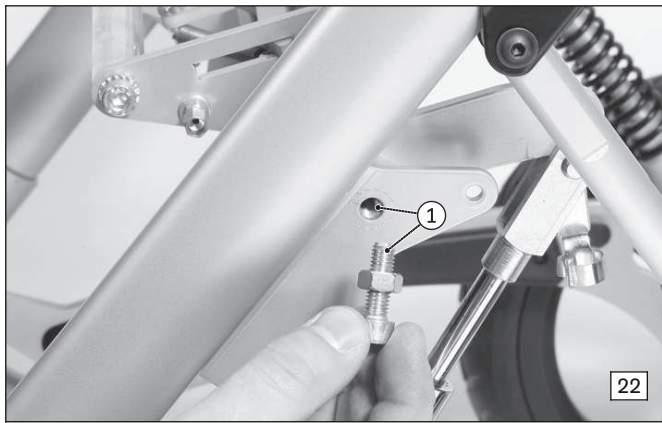
3.5.3.2 Replacing the Seat Adapter (Tilt Activation on Standard Seat)

INFORMATION

When replacing the seat adapter, the Bowden cable also has to be replaced. It is included with the mounting materials provided with the seat adapter (see Fig. 23).

- 1) Remove the Bowden cable on the Porter cylinder (see Page 12).
- 2) Unlock and remove the spring folding bolt on the porter cylinder (see Page 12).
- 3) Remove the Bowden cable on the seat adapter (see Fig. 20, Pos. 1).
- 4) Loosen the mounting screw on one side of the seat adapter (see Fig. 21, Pos. 1).
- 5) Remove the screw; insert a mounting aid (M8 screw with counter nut) in place of the screw that was removed and install the counter nut (see Fig. 22, Pos. 1).
- 6) Loosen the mounting screw on the other side.
- 7) Remove the disassembly aid.
- 8) Remove and replace the seat adapter.
- 9) Install the seat adapter with the mounting materials provided (see Fig. 23). Tighten the seat adapter mounting screws to a torque of **20 Nm**.
- 10) Conduct a functional test. Pay particular attention to the functionality of the seat tilt feature and the seat tilt mechanism in the tilted position.

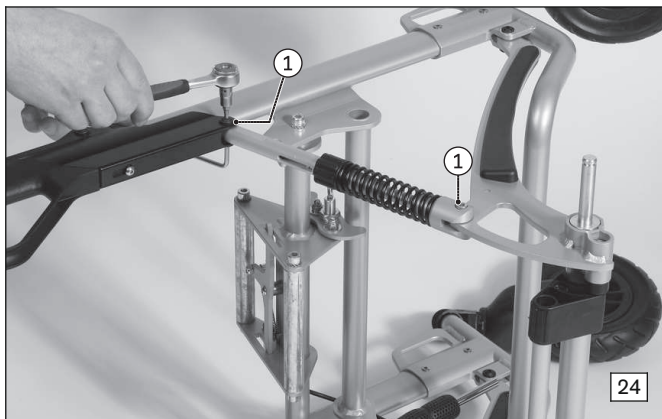




3.5.4 Suspension/Rear Wheel Linkage

3.5.4.1 Replacing the Suspension

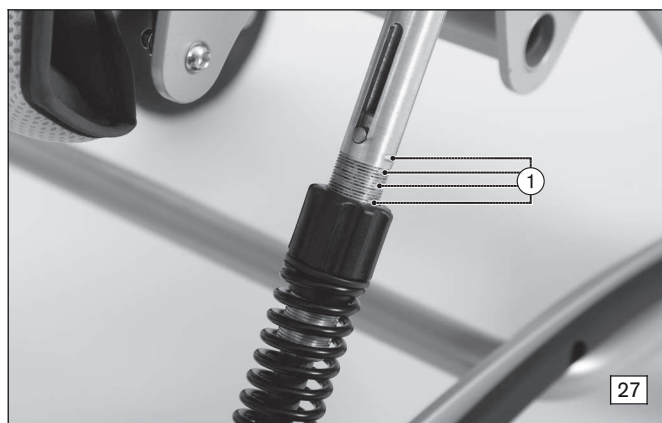
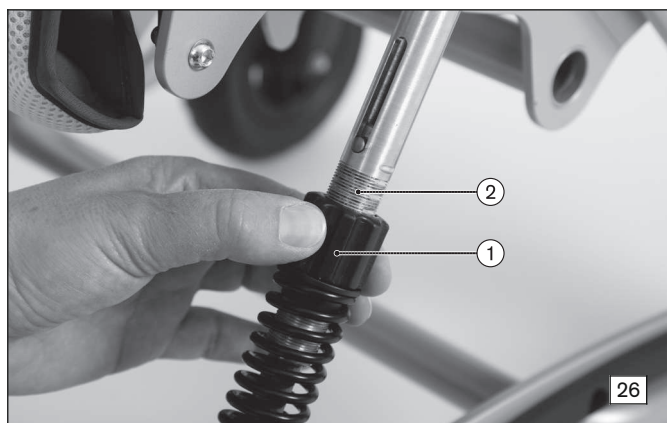
- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Loosen the suspension mounting screws (see Fig. 24, Pos. 1).
- 4) Remove and replace the suspension.
- 5) Install the suspension with the mounting materials provided (see Fig. 25). Tighten the mounting screws.
- 6) To adjust the spring force, see the following section.



3.5.4.2 Adjusting the suspension

The suspension can be adjusted continuously according to the user's weight and the conditions of the road/surface:

- 1) Twist the adjustment rings on both sides of the frame equally (see Fig. 26, item 1).
 - Clockwise: the suspension becomes tighter.
 - Counterclockwise: the suspension becomes softer.
- 2) Check that the adjustment rings are positioned the same on both sides. The 4 marks can be used for orientation (see Fig. 26, item 2; see Fig. 27, item 1).



We recommend the following setting for the spring tension:

User weight	Marking*
up to 10 kg	up to 1st marking from the top
up to 20 kg	up to 2nd marking from the top
up to 30 kg	up to 3rd marking from the top
up to 40 kg	up to 4th marking from the top

* Reference point: upper edge of the plastic adjustment nut

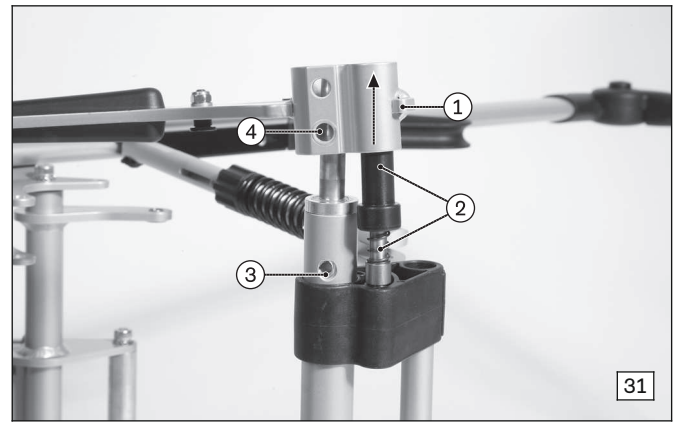
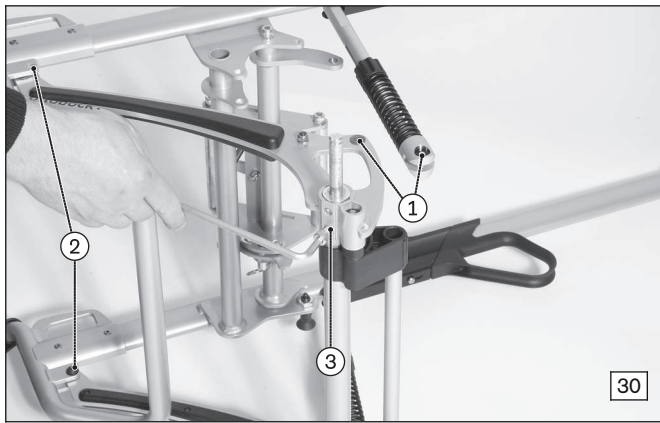
3.5.4.3 Replacing the Complete Rear Wheel Linkage (incl. Wheel Lock)

- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Loosen the mounting screws between the rear wheel linkage and suspension (see Fig. 28, Pos. 1).
- 4) Loosen the mounting screws between the rear wheel linkage and lower front frame (see Fig. 28, Pos. 2).
- 5) Remove and replace the assembly "rear wheel linkage with wheel lock" (see Fig. 29).
- 6) Install the complete rear wheel linkage using the mounting materials provided (see Fig. 29). Tighten the mounting screws.



3.5.4.4 Replacing the Rear Wheel Linkage (Individual)

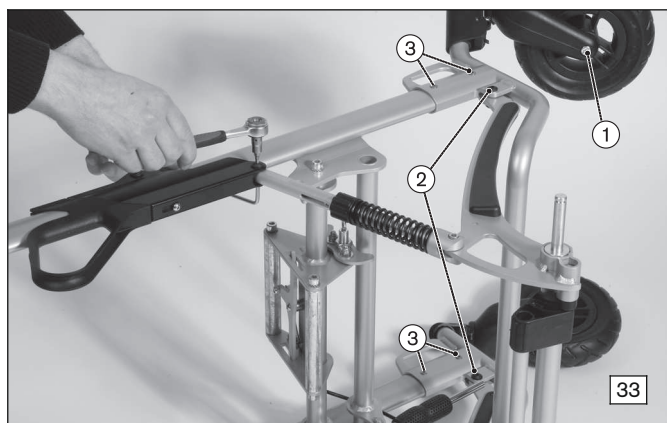
- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Loosen the mounting screw between the rear wheel linkage and suspension (see Fig. 30, Pos. 1).
- 4) Loosen the mounting screw between the rear wheel linkage and lower front frame (see Fig. 30, Pos. 2).
- 5) Loosen the mounting screw on the axle stub (see Fig. 30, Pos. 3).
- 6) Disengage and replace the rear wheel linkage (see Fig. 31, Pos. 1). Ensure that the spring and lock bush of the wheel lock are not ejected (see Fig. 31, Pos. 2).
- 7) Install the new rear wheel linkage with the mounting materials provided (see Fig. 32). Ensure that the bore hole of the axle stub (see Fig. 31, Pos. 3) fits flush with the mounting bore of the rear wheel linkage (see Fig. 31, Pos. 4).
- 8) Tighten the mounting screws: see Fig. 30, Pos. 1 – 3.



3.5.5 Frame

3.5.5.1 Replacing the Front Frame

- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Remove the caster wheels ("swivelling" front wheels: see Fig. 33; item 1; "fixed" front wheels: see Fig. 35).
- 4) Loosen the mounting screws between the rear wheel linkages and lower front frame (see Fig. 33, item 2; see Fig. 35, item 2).
- 5) Using a spiral bit ($\varnothing$ 5 mm), bore out 8 rivets between the lower/upper front frame (see Fig. 33, item 3; see Fig. 35, item 3). Tap out the rivets with a pin punch ($\varnothing$ 3 mm).
- 6) Remove and replace the front frame.
 - Front frame for swivelling front wheels (see Fig. 34)
 - Front frame for fixed front wheels (see Fig. 36)
- 7) Rivet/install the front frame with the mounting materials provided.
- 8) Tighten the mounting screws between the rear wheel linkages and lower front frame (see Fig. 33, item 2; see Fig. 35, item 2).
- 9) Install the caster wheels (see Page 10 ff.).

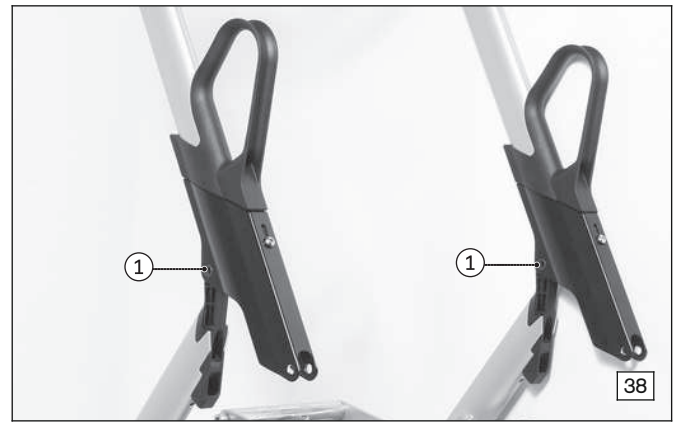


3.5.5.2 Replacing the Upper Front Frame

INFORMATION

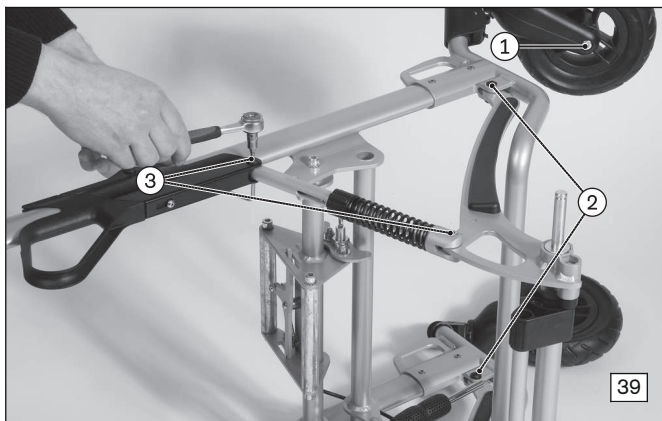
The front frame is offered complete (see Fig. 37) and alternatively in a version without seat adapter.

- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Remove the caster wheels ("swivelling" front wheels: see Fig. 39; item 1; "fixed" front wheels: not illustrated).
- 4) Loosen the mounting screws on the suspension (see Fig. 24, item 1).
- 5) **Only for front frame with seat adapter** (see Page 13):
 - Remove the Bowden cable from the seat adapter (see Fig. 20).
 - Unlock and remove the spring folding bolt on the Porter cylinder (see Fig. 17, item 1).
- 6) Loosen the mounting screws between the folding tubes and fixed tube heads (see Fig. 38, item 1) and remove the unit consisting of the folding tubes and push bar.
- 7) Using a spiral bit (Ø 5 mm), bore out 8 rivets between the lower/upper front frame (see Fig. 33, item 3) and tap them out with a pin punch (Ø 3 mm).
- 8) Remove and replace the upper front frame (see Fig. 37).
- 9) Install/rivet the front frame.
- 10) Tighten the mounting screws.
 - see Fig. 38, item 1
 - see Fig. 24, item 1
- 11) **Only for front frame with seat adapter:** Reconnect the seat adapter-Bowden cable and the seat adapter-Porter cylinder (see Page 13).
- 12) Install the caster wheels (see Page 10 ff.).



3.5.5.3 Replacing the Front Frame (Complete)

- 1) Remove the plug-on rear wheel.
- 2) Put the frame on its side.
- 3) Remove the caster wheels ("swivelling" front wheels: see Fig. 39; item 1; "fixed" front wheels: not illustrated).
- 4) Loosen the mounting screws between the rear wheel linkages and lower front frame (see Fig. 39, item 2).
- 5) Loosen the mounting screws on the suspension (see Fig. 39, item 3).
- 6) Disconnect the front frame from the seat adjustment mechanism (see Page 13):
 - Remove the Bowden cable from the seat adapter (see Fig. 20).
 - Unlock and remove the spring folding bolt on the Porter cylinder (see Fig. 17, item 1).
- 7) Loosen the mounting screws between the folding tubes and fixed tube heads (see Fig. 38, item 1) and remove the unit consisting of the folding tubes and push bar.
- 8) Remove and replace the front frame (see Fig. 40).
- 9) Install the front frame with the mounting materials provided.
- 10) Tighten the mounting screws.
 - see Fig. 38, item 1
 - see Fig. 39, item 2/3
- 11) Reconnect the seat adapter-Bowden cable and the seat adapter-Porter cylinder (see Page 13).
- 12) Install the caster wheels (see Page 10 ff.).



3.5.5.4 Replacing the Folding Tube

- 1) Bore out the rivet between the folding tube and ratchet joint (see Fig. 41, Pos. 1) and remove the ratchet joint.
- 2) Loosen the mounting screws on the suspension (see Fig. 41, Pos. 2).
- 3) Loosen the mounting screws between the folding tube and fixed tube head (see Fig. 41, Pos. 3).
- 4) Replace the folding tube.
- 5) Install the folding tube with the mounting materials provided (see Fig. 42). Tighten the mounting screws: see Fig. 41, Pos. 2/3.
- 6) Rivet the ratchet joint to the folding tube (see Fig. 41, Pos. 1).
- 7) Attach the sticker to the folding tube.



3.5.5.5 Replacing the Fixed Tube Head

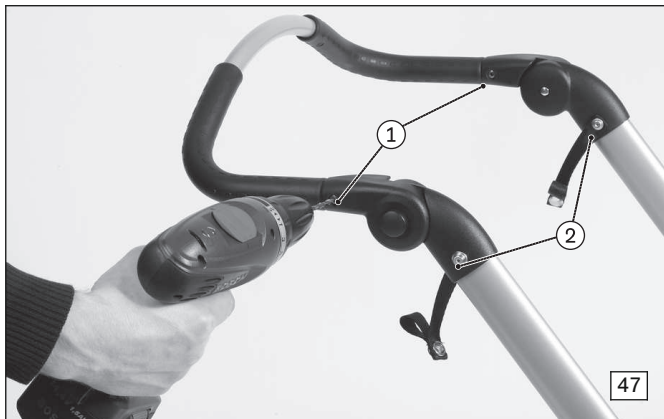
- 1) Loosen the mounting screws on the suspension (see Fig. 24, Pos. 1).
 - 2) Loosen the mounting screws between the folding tubes and fixed tube heads (see Fig. 38, Pos. 1) and remove the unit consisting of the folding tubes and push bar.
 - 3) Using a spiral bit ($\varnothing$ 5 mm), bore out the rivet on the fixed tube head and tap it out with a pin punch ($\varnothing$ 3 mm) (see Fig. 43).
 - 4) Tap out the fixed tube head from the upper front frame and replace it (see Fig. 44).
- NOTICE! Damage to the fixed tube head. Only use the surface shown in the illustration for tapping the component in or out.**
- 5) Using a pin punch, press the fixed tube head into the upper front frame (see Fig. 45).
 - 6) Rivet the fixed tube head (see Fig. 46).
 - 7) Reinstall the folding tubes with push bar and the suspension.
 - 8) Tighten the mounting screws.
 - see Fig. 38, Pos. 1
 - see Fig. 24, Pos. 1



3.5.6 Push Bar

3.5.6.1 Replacing the Ratchet Joints with Folding Fixture

- 1) Using a spiral bit (Ø 5 mm), bore out 4 rivets on each ratchet joint and tap them out with a pin punch (Ø 3 mm) (see Fig. 47, Pos. 1/2).
- 2) Remove and replace the ratchet joints (see Fig. 48).
- 3) Rivet the ratchet joint with the folding fixture on the correct side (see Fig. 49).



3.5.6.2 Replacing the Push Bar

- 1) Using a spiral bit (Ø 5 mm), bore out 2 rivets on each ratchet joint and tap them out with a pin punch (Ø 3 mm) (see Fig. 47, Pos. 1).
- 2) Remove and replace the push bar (see Fig. 50).
- 3) Rivet the push bar onto the ratchet joint.

3.5.7 Options/Accessories

3.5.7.1 Replacing the Storage Basket

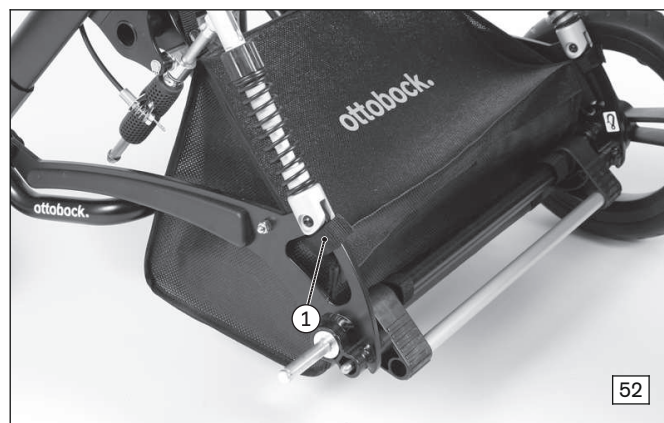
NOTICE

Incorrect attachment

Damage to the product

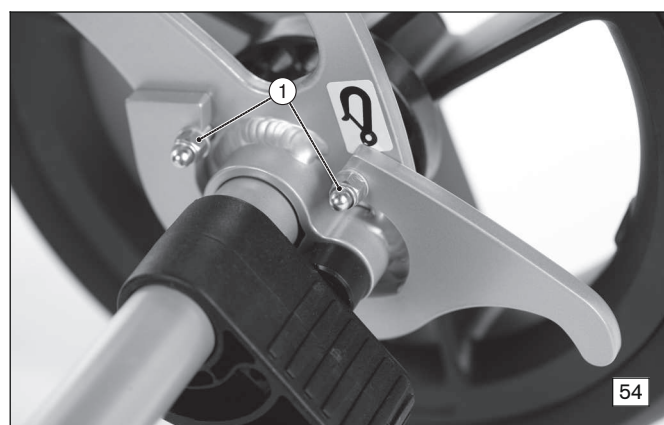
► During the attachment, make sure that the product cannot grind against the wheels.

- 1) Open the snap fasteners and hook-and-loop straps of the storage basket (see Fig. 51, Pos. 1; see Fig. 52, Pos. 1).
- 2) Remove and replace the storage basket.
- 3) Mount the storage basket, with the proper side, to the frame using the snap fasteners and hook-and-loop straps (see Fig. 51, Pos. 1; see Fig. 52, Pos. 1).



3.5.7.2 Replacing/Retrofitting the Tip-Assist

- 1) Install the tip-assist on the lashing point at the rear with 2 mounting screws (see Fig. 53, item 1).
- 2) Firmly tighten the cap nuts (see Fig. 54, item 1).



3.5.7.3 Retrofitting the Respirator Platform

⚠ WARNING

Use in a wheelchair accessible vehicle is forbidden

Severe injury in case of accidents

- Use of the product in wheelchair accessible vehicles in combination with the artificial respiration platform option is not permitted.

INFORMATION

The respiration platform cannot be used on a product with fixed front wheels.

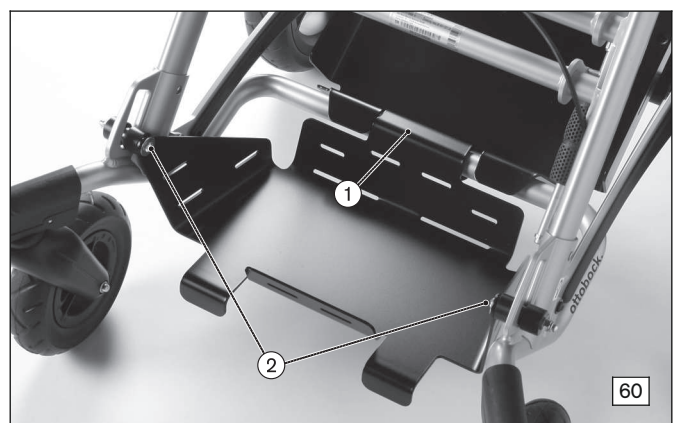
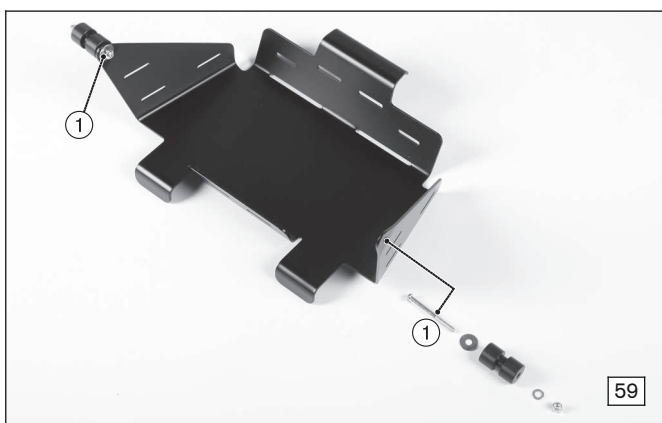
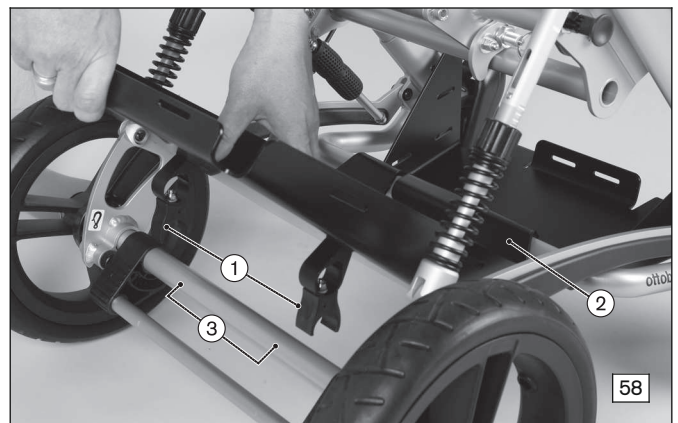
Mounting instructions

- The option can be installed as follows:
 - Installation of the large plate over the front wheels (see Fig. 55) – user sits in the seat facing opposite to the direction of travel
 - Installation of the large plate over the rear wheels (see Fig. 56) – user sits in the seat facing in the direction of travel
- Using an anti-slip mat is recommended.
- **Turning the seating unit is only possible if the respirator platform installation is changed.**
- The respirator is attached to the respirator platform using straps through the slots.



Installation with a seat facing opposite to the direction of travel

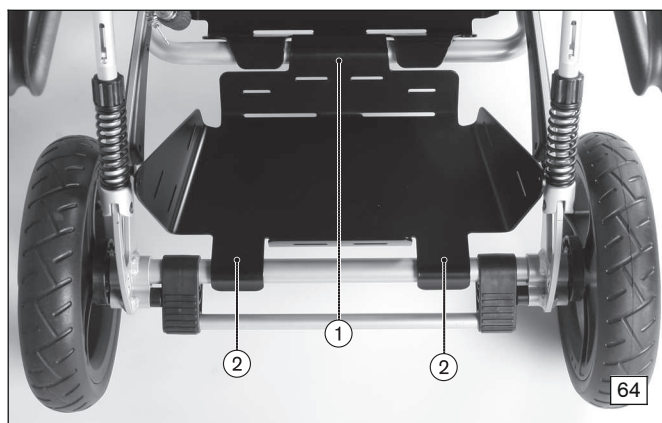
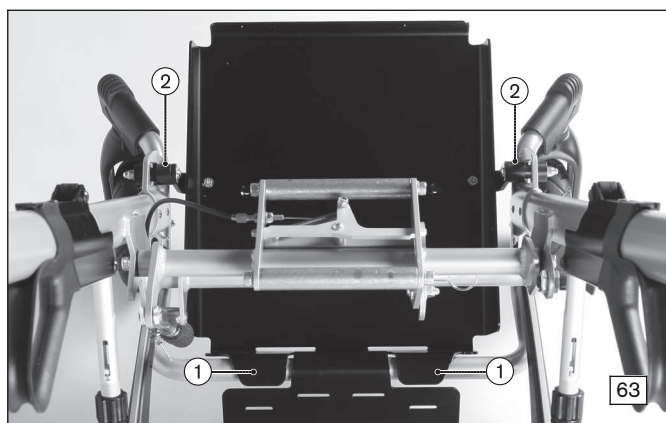
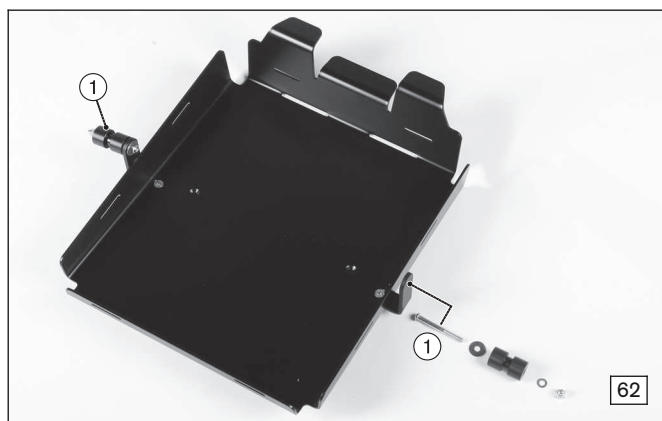
- 1) Glue the loop strap onto the front frame tube (see Fig. 57).
- 2) Firmly install the clamp fittings on the interior bores of the large plate (see Fig. 58, item 1).
- 3) Set the large plate onto the tube of the front frame (see Fig. 58, item 2).
- 4) Press the clamp fittings of the large plate onto the axle tube (see Fig. 58, item 3).
- 5) Set the small plate onto the front frame tube (see Fig. 60, item 1).
- 6) Thread the bearing bushings through the lashing points from the outside and firmly screw them to the small plate (see Fig. 60, item 2).



Installation with a seat facing in the direction of travel

- 1) Glue the loop strap onto the front frame tube (see Fig. 57).
- 2) Pre-install the metal bracket on the large plate (see Fig. 62).
- 3) Set the large plate onto the front frame tube (see Fig. 63, item 1).
- 4) Thread the bearing bushings through the lashing points from the outside and firmly screw them to the large plate (see Fig. 61, see Fig. 63, item 2).

- 5) Set the small plate onto the front frame tube (see Fig. 64, item 1).
- 6) Set the small plate onto the axle tube (see Fig. 64, item 2).



3.6 Multifunctional Seating Unit (Standard Seat)

3.6.1 Pads/Covers

INFORMATION

The manufacturer offers two versions of the pads and covers with identical mounting:

- Pads/covers (standard)
- Pads/covers (microfibre)

3.6.1.1 Replacing the Seat Pad

- 1) Lift the seat pad and remove it from the hook-and-loop fastener on the seat plate (see Fig. 65).
- 2) Replace the seat pad.
- 3) Fit the seat pad onto the hook-and-loop fastener.
- 4) Push the seat pad under the hip supports (see Fig. 66).



3.6.1.2 Replacing the Backrest Pad

INFORMATION

The manufacturer offers two versions of the backrest pad:

- ▶ Back pad for standard back insert (see Fig. 67)
- ▶ Back pad for back insert with head supports (see Fig. 68; to adjust the clearance of the integrated head support: see Page 26)

- 1) Release the twist lock of the backrest pad behind the seat bottom (see Fig. 69).
- 2) Unzip the backrest pad zipper (see Fig. 70) and remove/replace the backrest pad.
- 3) Put the backrest pad in place and pull it through between the back and seat bottom.
- 4) Close the twist lock (see Fig. 69).
- 5) Slide the backrest pad under the lateral supports (no illustration).



3.6.1.3 Replacing the Covers

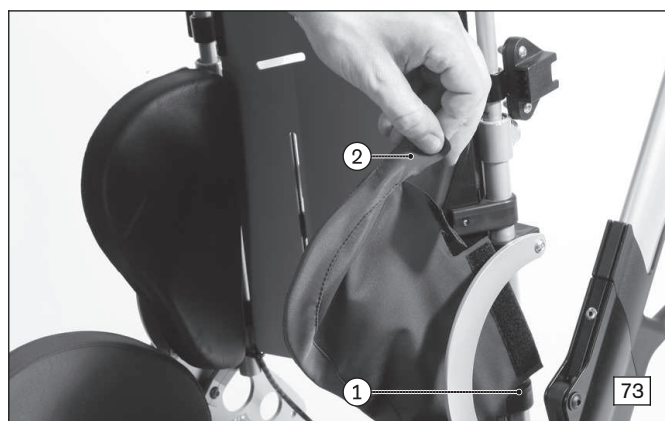
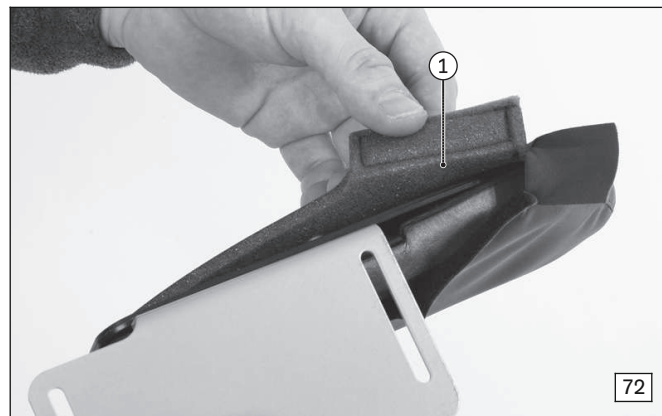
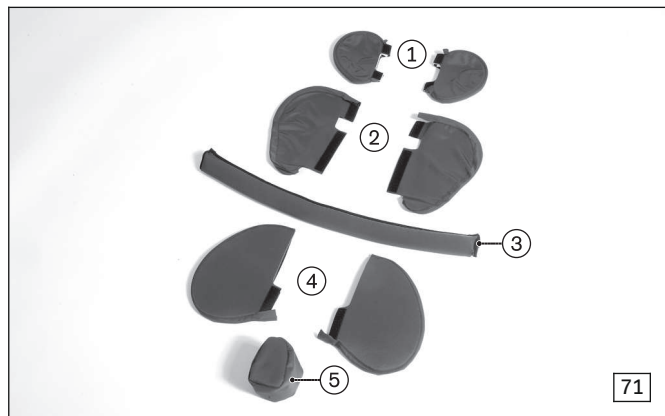
INFORMATION

The manufacturer offers the covers in the following versions:

- ▶ Covers for headrest supports (see Fig. 71, Pos. 1)
- ▶ Covers for lateral supports (see Fig. 71, Pos. 2)
- ▶ Covers for thoracic supports (no illustration)
- ▶ Cover for the grab rail (see Fig. 71, Pos. 3; see the following section for replacement)
- ▶ Covers for hip supports (see Fig. 71, Pos. 4)
- ▶ Cover for the abductor (see Fig. 71, Pos. 5)

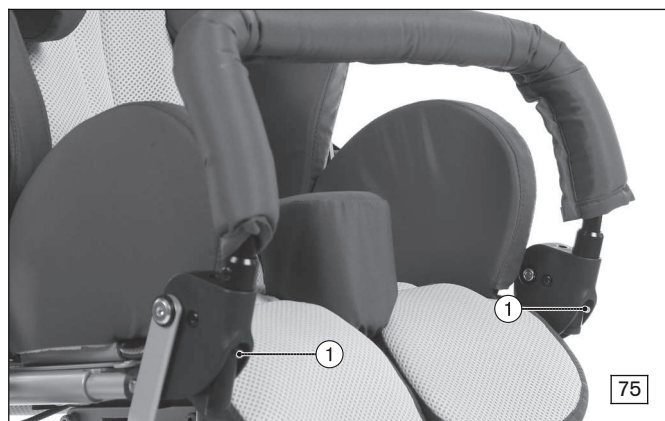
- 1) Remove the seat pad or backrest pad if required.
- 2) Open the hook-and-loop closure on the cover.
- 3) Remove the cover from the support or abductor and replace it.
- 4) Slide the cover over the support with proper alignment. Note the following:
 - If present: position the side reinforced with foam material on the **outside** (over the screw heads) (see Fig. 72, Pos. 1).

- Pull the cover over the support starting with the side that does not have a lug (see Fig. 73, Pos. 1).
 - Pull the cover over the support with the help of the lug (see Fig. 73, Pos. 2).
 - Before fastening the hook-and-loop closure, push and fold down the lug (see Fig. 74).
- 5) Put the seat pad or backrest pad back into place.



3.6.1.4 Replacing the Grab Rail Cover (Option)

- 1) Push in the tripod spring and remove the grab rail (see Fig. 75, Pos. 1).
- 2) Pull the grab rail pad (see Fig. 71, Pos. 3) off the grab rail and replace it.
- 3) Slide the grab rail pad onto the grab rail (see Fig. 75).
- 4) Reattach the grab rail.



3.6.1.5 Replacing the Frame Padding (Option)

- 1) Open the hook-and-loop closure on the frame padding.
- 2) Remove and replace the frame padding.
- 3) Fit the frame padding around the push bar and close the hook-and-loop strap.

- 4) Twist the hook-and-loop strap down and push the frame padding over the folding mechanism all the way to the release handles (see Fig. 76).



3.6.2 Back

3.6.2.1 Replacing the Back Insert

INFORMATION

The manufacturer offers two versions of the back insert:

- Standard back insert: see Fig. 78
- Back insert with head supports: see Fig. 79

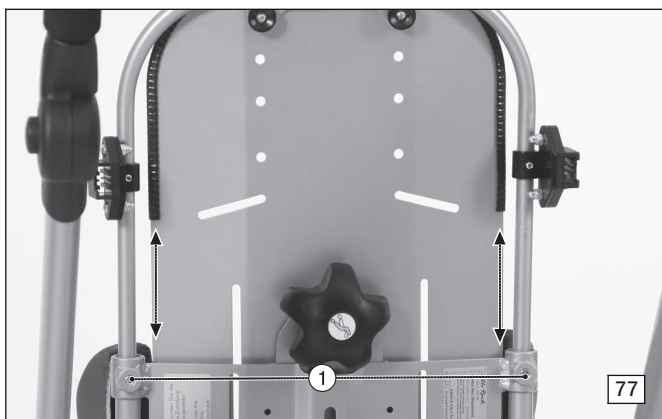
- 1) Remove the backrest pad (see Page 24).
- 2) Loosen the 2 x set screws on the backrest tubes (see Fig. 77, Pos. 1).
- 3) Remove and replace the standard back insert (see Fig. 78) or the back insert with head supports (see Fig. 79).
- 4) Slide the new back insert into the back frame and adjust it to the desired height.
- 5) Tighten the set screws (see Fig. 77, Pos. 1).

INFORMATION: You can achieve a greater back height by additionally shifting the top back plate at the back insert. To do so, loosen/remove the knurled nuts, shift the back plate and hand-tighten the knurled nuts again.

- 6) Put the backrest pad in place (see Page 24).

Adapting the Back Insert with Integrated Head Supports

To adjust the clearance in the area of the head, up to 3 foam pads with a thickness of 1 cm each can be glued onto the head supports (see Fig. 80, Pos. 1). They are included with the backrest pad.





3.6.2.2 Replacing the Knob

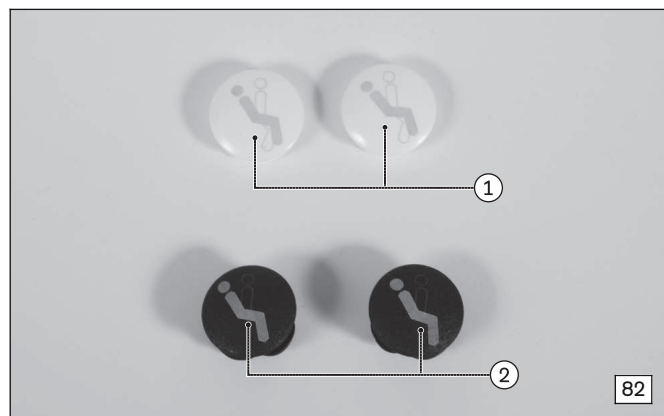
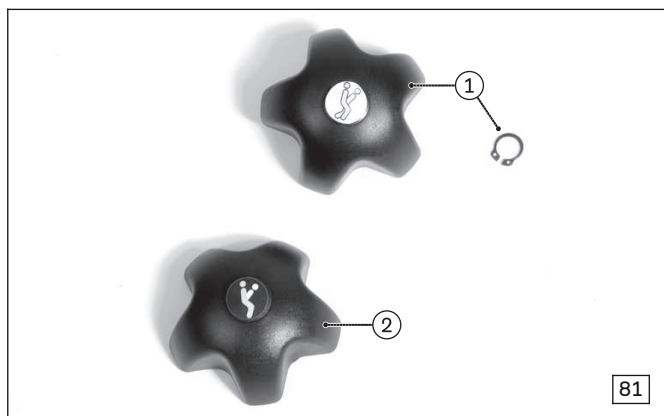
INFORMATION

The manufacturer offers the knob and cover cap in the following single components:

- ▶ Seat angle adjustment knob: see Fig. 81, item 1
- ▶ Seat angle adjustment cover cap: see Fig. 82, item 1
- ▶ Back angle adjustment knob: see Fig. 81, item 2
- ▶ Back angle adjustment cover cap: see Fig. 82, item 2

Replacing the Seat Angle Adjustment Knob and Cover Cap

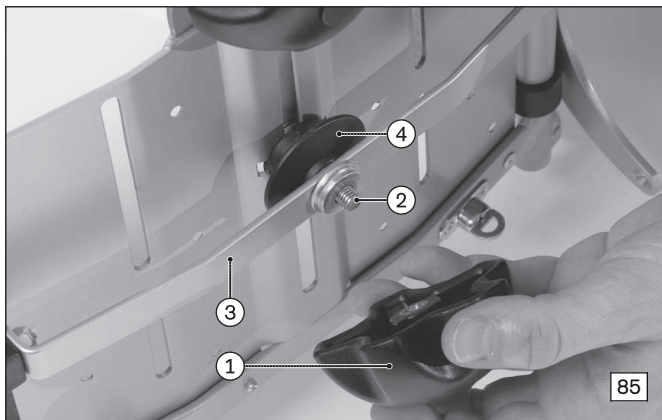
- 1) Using a screwdriver, carefully pry up the cover cap, remove and replace it (see Fig. 83).
- 2) Remove and replace the circlip (see Fig. 84).
- 3) Pull the knob off the centring pivot and replace it.
- 4) Install the knob using the mounting materials provided (see Fig. 81, item 1).
- 5) Tap the cover cap (see Fig. 82, item 1) into the knob.





Replacing the Back Angle Adjustment Knob and Cover Cap

- 1) Using a screwdriver, carefully pry up the cover cap, remove and replace it (not illustrated).
- 2) Unscrew the knob from the mounting screw on the clamp tie-bar and replace it (see Fig. 117, item 1 – 3).
- 3) Reinstall the knob (see Fig. 81, item 2).
- 4) Using a rubber hammer, tap the cover cap (see Fig. 82, item 2) into the knob.



3.6.2.3 Removing/Installing the Tilt Activation Mechanism

INFORMATION

Removing/installing the tilt activation mechanism is required to replace the back frame and base frame (seat frame).

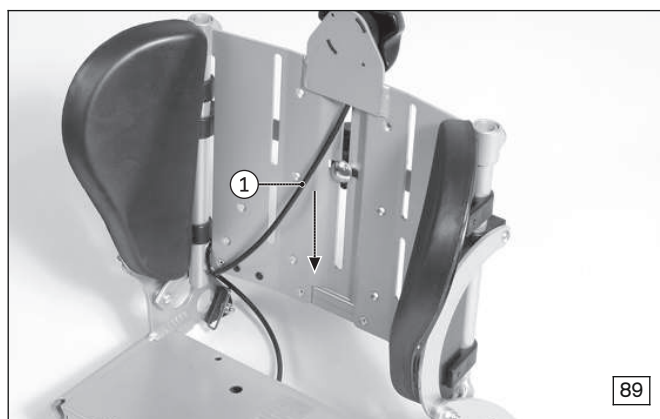
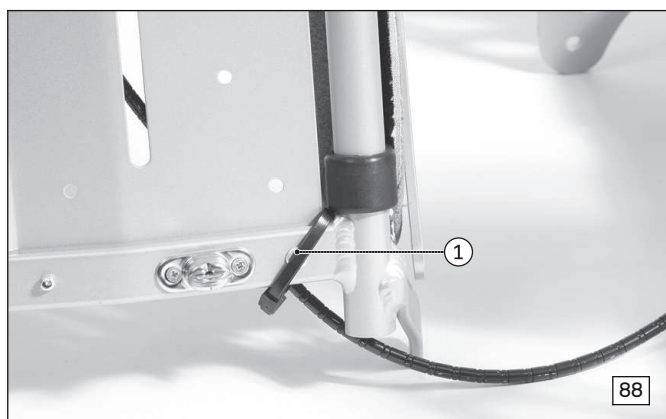
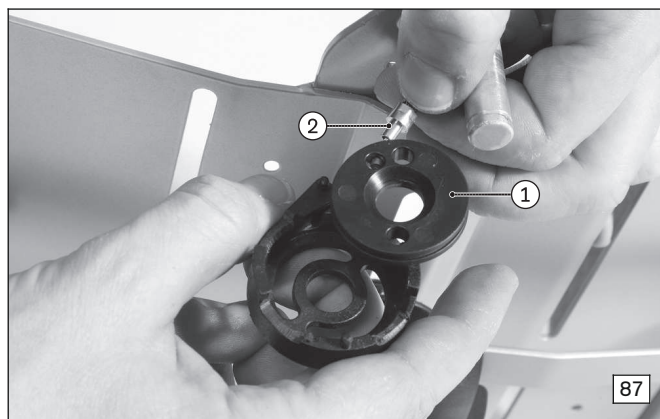
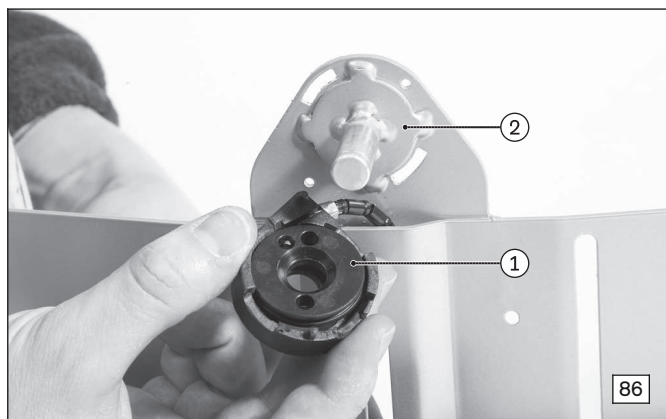
Removing the Tilt Activation Mechanism

- 1) Remove the backrest pad (see Page 24).
 - 2) Remove the back insert (see Page 26).
 - 3) Remove the cover cap and knob (see preceding section).
 - 4) Pry the back of the Bowden cable adapter (see Fig. 86, Pos. 1) off the adapter on the back plate (see Fig. 86, Pos. 2).
 - 5) Remove the round piece from the Bowden cable adapter (see Fig. 87, Pos. 1).
 - 6) If required, disconnect the Bowden cable from the round piece (see Fig. 87, Pos. 2).
 - 7) Cut open and remove the cable ties on the back frame (see Fig. 88, Pos. 1).
 - 8) Pull the Bowden cable down through the back frame (see Fig. 89, Pos. 1).
- Now the back frame and base frame (seat frame) can be replaced.

Installing the Tilt Activation Mechanism

- 1) After installing the back frame or base frame (seat frame), reinstall the tilt activation mechanism.
- 2) Note the following:
 - With the help of cable ties, install the Bowden cable so that it cannot be pinched/damaged (see Fig. 88/see Fig. 89).

→ During assembly, firmly press the Bowden cable adapter into the adapter on the back plate (see Fig. 86, Pos. 1/2).

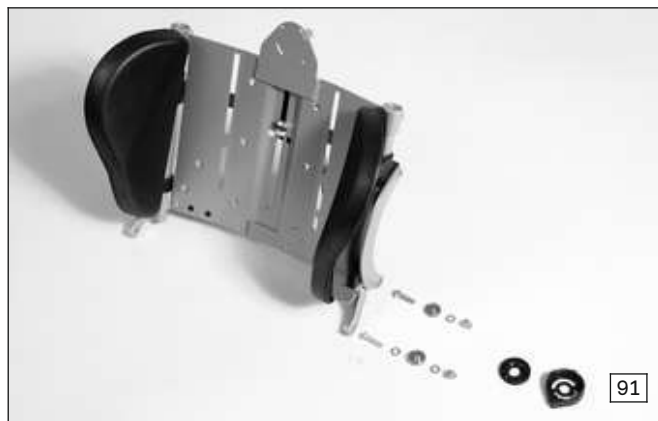
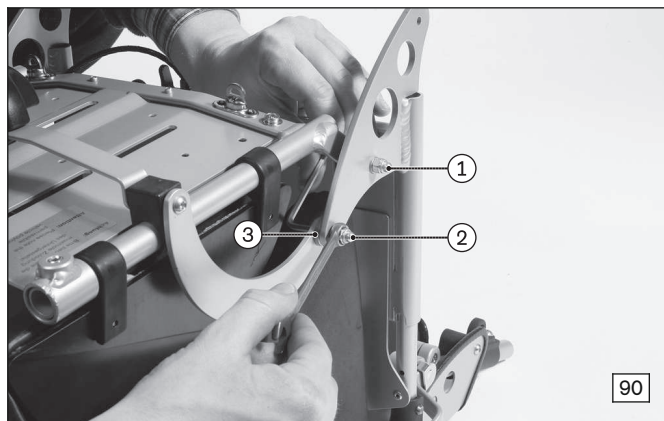


3.6.2.4 Replacing the Back Frame (Complete)

- 1) Remove the backrest pad (see Page 24).
- 2) Remove the back insert (see Page 26).
- 3) Remove the tilt activation mechanism (see Page 28).
- 4) Loosen the 4 x mounting screws on the back frame-base frame connection (see Fig. 90, Pos. 1/2).
- 5) Remove the 4 x bearing bushings (see Fig. 90, Pos. 3).
- 6) Separate the back frame from the base frame and replace it.
- 7) Install the back frame using the mounting materials provided (see Fig. 91).
- 8) Tighten the mounting screws.

INFORMATION: Tighten the screw connections so that there is no play between the mounting elements. Take care, however, not to deform any components. Then check the movability of the connected frame components and readjust the tightness of the screw connections as necessary.

- 9) Reinstall the tilt activation mechanism (see Page 28) and the back insert (see Page 26).
- 10) Reinstall the backrest pad (see Page 24).



3.6.2.5 Replacing the Lateral Supports

To install the lateral supports: see Page 36.

3.6.2.6 Replacing the Headrest Supports

To install the headrest supports: see Page 34.

3.6.2.7 Installing/removing the seat depth reducer

INFORMATION

The seat depth of the multifunctional seating unit in size 1 can be reduced by 5 cm to 14 cm with the seat depth reducer.

Installing the seat depth reducer

- 1) Remove the covers.
- 2) Remove the hip pads (see Page 35).
- 3) Remove the back frame. In order to do so, loosen the four mounting screws on the back frame – base frame connection (see Fig. 90, item 1/2) and remove the four bearing bushings (see Fig. 90, item 3).
- 4) Attach the seat depth reducer with two mounting screws and two bearing bushings to the base frame (see Fig. 92, item 1; see Fig. 93, item 1).

INFORMATION: In doing so, secure the mounting screws with a medium-strength liquid thread lock compound (see Fig. 94).

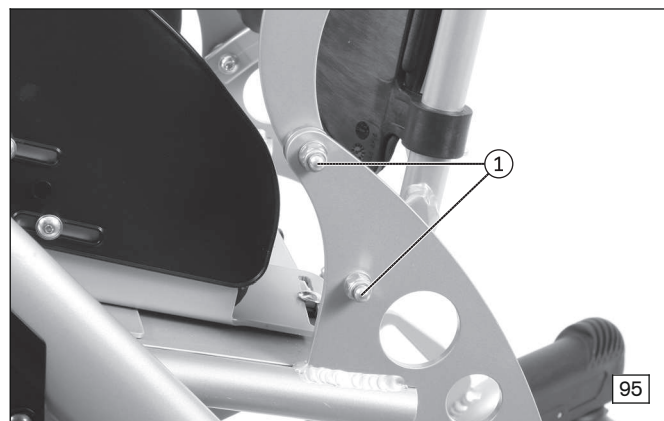
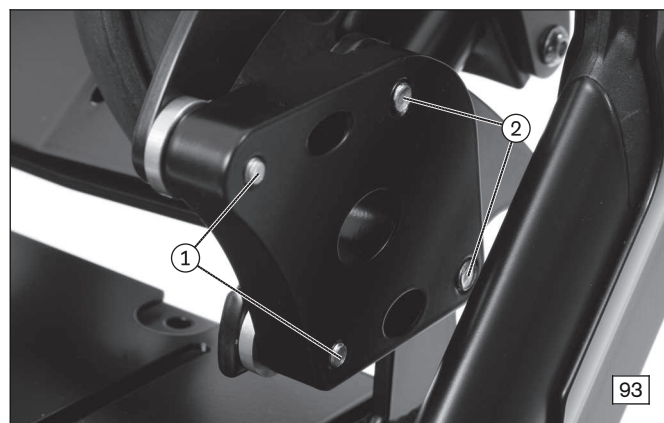
- 5) Install the back frame with two mounting screws and two bearing bushings to the seat depth reducers (see Fig. 92, item 2; see Fig. 93, item 2).

INFORMATION: In doing so, secure the mounting screws with a medium-strength liquid thread lock compound (see Fig. 94).

- 6) Attach the hip pads and pull over the covers.

Removing the seat depth reducer

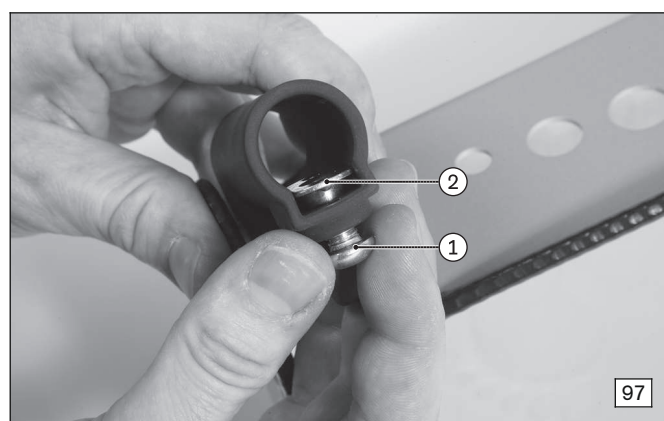
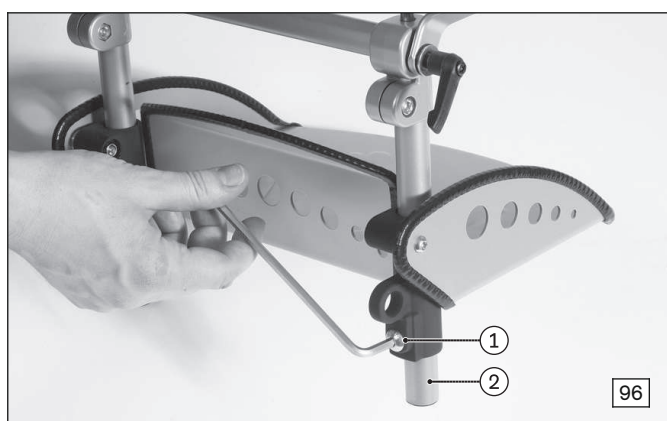
- 1) Remove the covers.
- 2) Remove the hip pads (see Page 35).
- 3) Loosen and remove the four mounting screws on each seat depth reducer (see Fig. 92, item 1/2). Remove the bearing bushings.
→ The back frame is now separated from the base frame.
- 4) Attach the back frame with the bearing bushings inserted (see Fig. 90, item 3) to the base frame (see Fig. 95, item 1) using two mounting screws (see Fig. 90, item 1/2).
- 5) Attach the hip pads and pull over the covers.



3.6.3 Footplate/Knee Angle Assembly

3.6.3.1 Replacing the Foot Plate

- 1) **Recommendation:** Set the knee angle assembly horizontal.
- 2) Loosen the mounting screws in the slides (see Fig. 96). Ensure that the inserted flange nuts (see Fig. 97, Pos. 2) do not fall out of the slides in the process.
- 3) Remove the footplate from the footplate adapter (see Fig. 96, Pos. 2) and replace it.
- 4) Slide the footplate onto the footplate adapter.
- 5) Tighten the mounting screws in the sliders to a torque of **5 Nm**.



3.6.3.2 Replacing Small Parts on the Footplate

Replacing the Sliders

- 1) Remove the footplate.
- 2) Loosen the mounting screws on the sliders (see Fig. 98).
- 3) Remove and replace the sliders.
- 4) Tighten the mounting screws on the sliders to a torque of **5 Nm**.

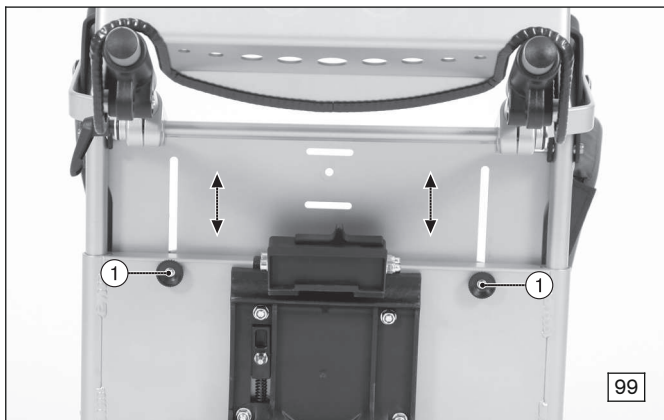
Replacing the Flange Nut on a Slider

- 1) Loosen the mounting screws in the sliders (see Fig. 97, Pos. 1).
- 2) Remove the inserted flange nuts (see Fig. 97, Pos. 2) from the sliders and replace them.
- 3) Secure the flange nuts with the mounting screws.



3.6.3.3 Replacing the Knee Angle Assembly (Complete)

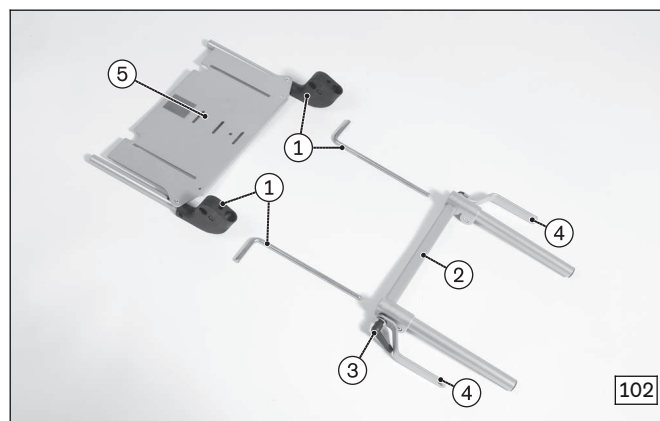
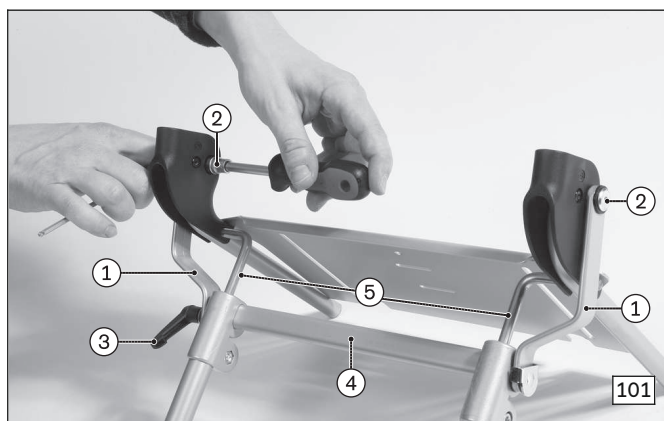
- 1) Remove the seating unit from the outdoor mobility base.
- 2) Loosen the 2 x knurled nuts on the underside of the base frame (see Fig. 99, Pos. 1).
- 3) **If required:** Loosen the 2 x knurled nuts on the rear mounting screws on the hip supports (see Fig. 111).
- 4) Pull the knee angle assembly (complete) out of the base frame and replace it (see Fig. 100).
- 5) Remove the footplate from the footplate adapter (see Page 31).
- 6) Slide the knee angle assembly (complete) back into the base frame and mount it.
- 7) Slide the footplate onto the footplate adapter (see Page 31).
- 8) Hand-tighten the knurled nuts.



3.6.3.4 Replacing the Footplate Adapter

- 1) Remove the footplate (see Page 31).
- 2) Remove the knee angle assembly from the base frame (see Page 32).
- 3) Loosen the pivoted levers (see Fig. 101, Pos. 1) from the end pieces of the "seat adjuster" (see Fig. 101, Pos. 2).
- 4) Open the clamping lever (see Fig. 101, Pos. 3) and pull the footplate adapter (see Fig. 101, Pos. 4) from the struts (see Fig. 101, Pos. 5).
- 5) Pull the struts from the end pieces of the "seat adjuster" (see Fig. 101, Pos. 5/2).
- 6) Prepare the new footplate adapter (see Fig. 102).
- 7) Insert the struts into the end pieces of the "seat adjuster" (see Fig. 102, Pos. 1).
- 8) Slide the footplate adapter onto the struts (see Fig. 102, Pos. 2).
- 9) Engage the clamping lever (see Fig. 102, Pos. 3).
- 10) Mount the pivoted levers (see Fig. 102, Pos. 4) on the end pieces of the "seat adjuster" with the mounting screws (see Fig. 101, Pos. 1/2).

- 11) Mount the footplate (see Page 31).
- 12) Mount the knee angle assembly on the base frame (see Page 32).



3.6.3.5 Replacing the "Seat Adjuster"

- 1) Remove the footplate (see Page 31).
- 2) Remove the knee angle assembly from the base frame (see Page 32).
- 3) Loosen the footplate adapter with struts from the end pieces of the "seat adjuster" (see Page 32).
- 4) Replace the "seat adjuster" (see Fig. 102, Pos. 5).
- 5) Insert the struts into the end pieces of the "seat adjuster" (see Fig. 102, Pos. 1).
- 6) Slide the footplate adapter onto the struts (see Fig. 102, Pos. 2).
- 7) Engage the clamping lever (see Fig. 102, Pos. 3)
- 8) Mount the pivoted levers (see Fig. 102, Pos. 4) on the end pieces of the "seat adjuster" with the mounting screws (see Fig. 101, Pos. 1/2).
- 9) Mount the footplate (see Page 31).
- 10) Mount the knee angle assembly on the base frame (see Page 32).

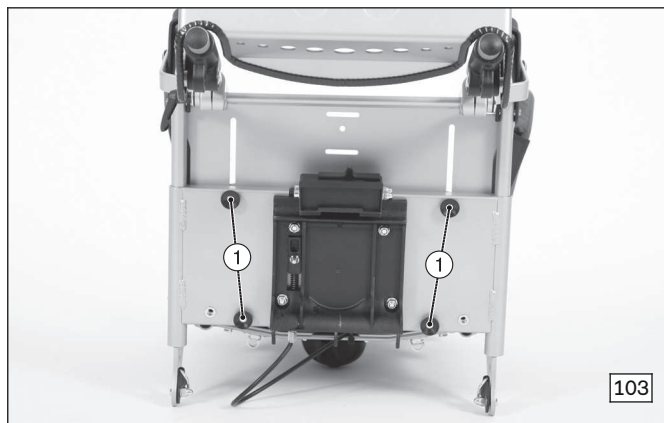
3.6.4 Base Frame (Seat Frame)

3.6.4.1 Replacing the Base Frame (Tilt Activation Mechanism on Seat)

INFORMATION

The tilt activation mechanism must be removed prior to replacement (see Page 28).

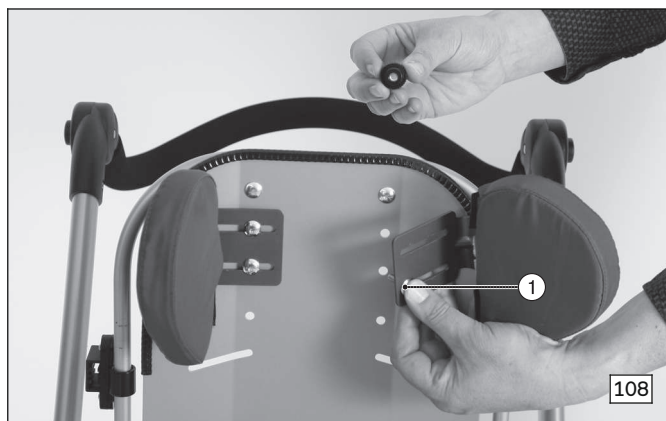
- 1) Remove the seat pad (see Fig. 70).
- 2) Remove the seating unit.
- 3) Loosen the 4 x knurled nuts on the underside of the seat (see Fig. 111, Pos. 1) and remove the hip supports.
- 4) Pull the knee angle assembly out of the base frame (see Fig. 104).
- 5) Remove the back insert (see Page 26).
- 6) Remove the Bowden cable of the tilt activation mechanism from the back frame (see Page 28).
- 7) Loosen the 4 x mounting screws on the back frame-base frame connection (see Fig. 104, Pos. 1/2).
- 8) Remove and replace the base frame (see Fig. 105).
- 9) Mount the back frame on the base frame (see Fig. 104, Pos. 1/2; see Page 29).
- 10) Reinstall the Bowden cable of the tilt activation mechanism (see Page 28).
- 11) Reinstall the back insert (see Page 26).
- 12) Reinstall the backrest pad (see Page 24).



3.6.5 Supports

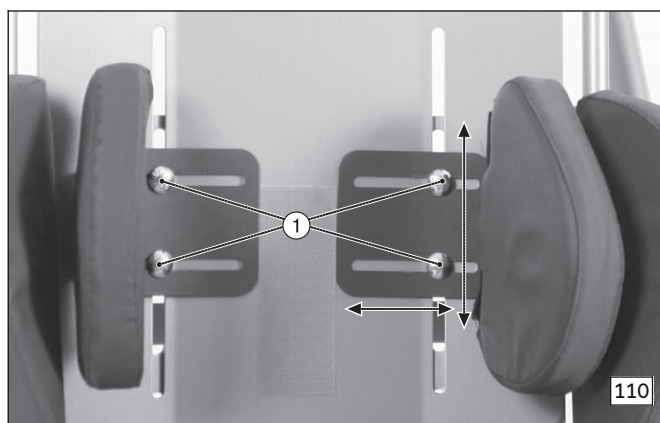
3.6.5.1 Replacing the Headrest Supports

- 1) **With a standard pad:** Open the zipper at the top of the pad (see Fig. 70) and fold the backrest pad forward.
With a microfibre pad: Open the zipper. Do **not** fold down the pad; the supports must be threaded through the slits in the pad for installation.
- 2) Loosen the knurled nuts on the back of the back plate (see Fig. 106).
- 3) Remove the mounting screws and supports.
- 4) Remove the covers from the supports (see Page 24) and replace the supports.
- 5) Pull the covers over the new supports with proper alignment (see Page 24).
- 6) Preinstall the supports on the correct sides with the mounting materials provided (see Fig. 107).
INFORMATION: With a microfibre pad, the supports first have to be threaded through the slits in the backrest pad.
- 7) Put the mounting screws through the slotted hole in the support and the bore hole in the back insert, respectively (see Fig. 108).
INFORMATION: If the headrest supports are to be mounted to the top holes (= mounting points of the back plate), the longer mounting screws, which come with the device, will have to be used instead of the regular mounting screws.
- 8) Fasten the headrest supports on the back of the back plate using the knurled nuts (see Fig. 106). Adjust the width in the slotted holes if required.
- 9) Hand-tighten the knurled nuts.
- 10) **With a standard pad:** Fold the backrest pad back over the supports and close the zipper.
With a microfibre pad: Close the zipper.



3.6.5.2 Replacing the Thoracic Supports

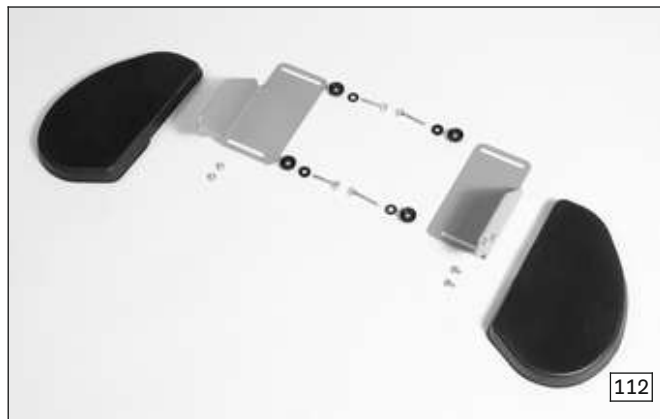
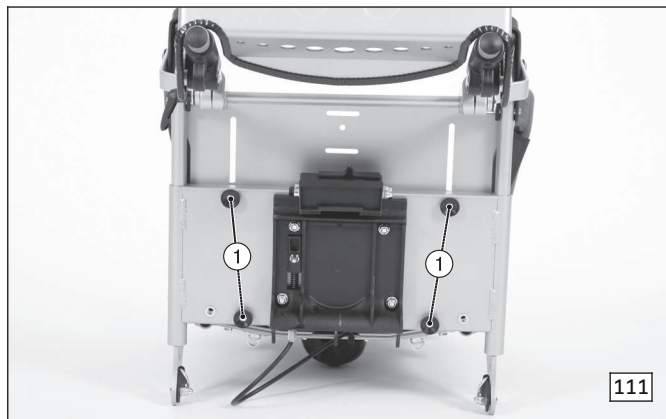
- 1) Open the zipper at the top of the pad (see Fig. 70) and fold the backrest pad forward.
- 2) Loosen the knurled nuts on the back of the back plate (no illustration).
- 3) Remove the mounting screws and supports.
- 4) Remove the covers from the supports (see Page 24) and replace the supports.
- 5) Pull the covers over the new supports with proper alignment (see Page 24).
- 6) Preinstall the supports on the correct sides with the mounting materials provided (see Fig. 109).
- 7) Put the mounting screws through the slotted holes in the support and the slotted holes in the back frame/back insert, respectively (see Fig. 110, Pos. 1).
- 8) Fasten the thoracic supports on the back of the back insert using knurled nuts. If necessary, adjust the width/height.
- 9) Hand-tighten the knurled nuts.
- 10) Fold the backrest pad back over the supports and close the zipper.



3.6.5.3 Replacing the Hip Supports

- 1) Remove the seat pad (see Fig. 70).

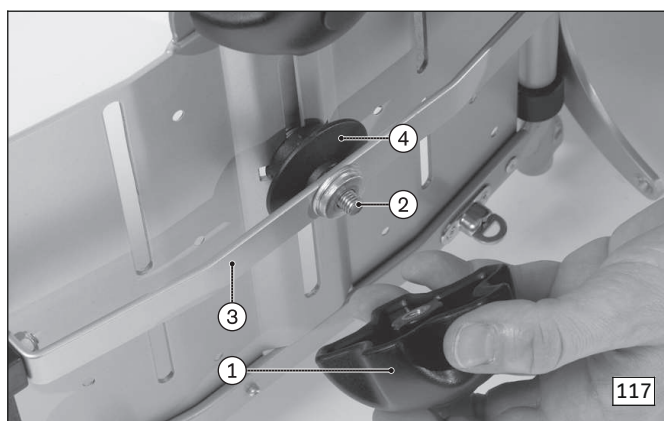
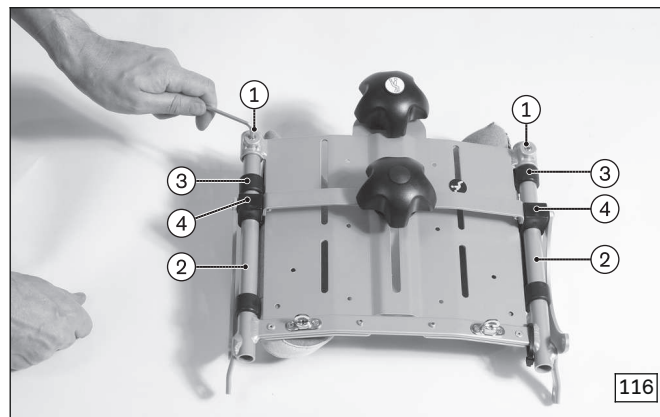
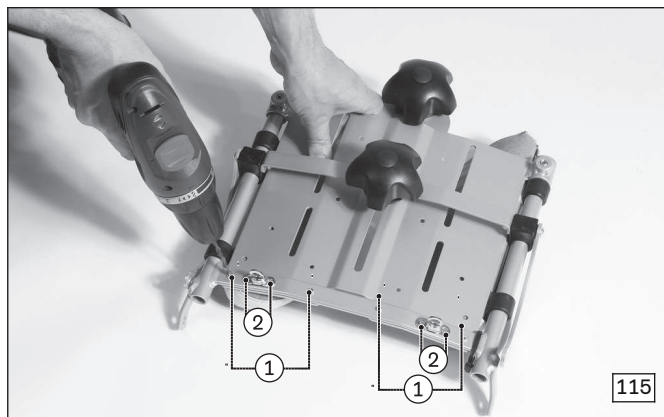
- 2) Remove the covers from the supports (see Page 24).
- 3) Loosen the 4 x knurled nuts on the underside of the seat (see Fig. 103, Pos. 1).
- 4) Remove the mounting screws and supports.
- 5) Preinstall the supports on the correct sides with the mounting materials provided (see Fig. 112).
- 6) Put the mounting screws through the slotted holes in the support and the slotted holes in the base frame (seat frame) and the front seat plate, respectively (see Fig. 113).
- 7) Mount the hip supports on the underside of the seat using knurled nuts (see Fig. 103, Pos. 1).
- 8) Adjust the seat width by moving the hip supports (see Fig. 113). This also allows for abducted settings. Hand-tighten the knurled nuts.
- 9) Adjust the depth of the supports if required (see Fig. 114). Tighten the mounting screws.
- 10) Pull the covers over the supports with proper alignment (see Page 24).
- 11) Replace the seat pad and secure it with the hook-and-loop fastener (see Fig. 70).



3.6.5.4 Replacing the Lateral Supports

- 1) Open the zipper at the top of the pad (see Fig. 70) and remove the backrest pad (see Page 24).
- 2) Remove the covers from the supports (see Page 24).
- 3) Remove the back insert (see Page 26).
- 4) Remove and set aside the back frame (see Page 29).
- 5) Remove the back plate from the back frame:
 - Using a spiral bit ($\varnothing$ 5 mm), bore out 4 rivets between the back frame and back plate (see Fig. 115, Pos. 1) and tap them out with a pin punch ($\varnothing$ 3 mm).
 - Remove the 4 x Phillips screws between the back frame and back plate (see Fig. 115, Pos. 2)
 - Remove the 2 x set screws from the tube clamp (see Fig. 116, Pos. 1).
 - Remove the knob (see Fig. 85, Pos. 1) and the mounting screw (see Fig. 85, Pos. 2) from the clamp tie-bar (see Fig. 85, Pos. 3).
 - Pull the back plate off the back frame.
- 6) Pull the tubes of the back frame (see Fig. 116, Pos. 2) from the lateral pads (see Fig. 116, Pos. 3) and the plastic slides of the clamp tie-bar (see Fig. 116, Pos. 4).
- 7) Replace the lateral supports (see Fig. 118).

- 8) Push the tubes of the back frame (see Fig. 116, Pos. 2) through the lateral supports (see Fig. 116, Pos. 3) and the plastic slides of the clamp tie-bar (see Fig. 116, Pos. 4) on the back plate.
- 9) Rivet and screw the back plate in place.
- 10) Use the mounting screw to install the knob (including back securing bolt: see Fig. 85, Pos. 4) on the clamp tie-bar.
- 11) Reinstall the back frame (see Page 29).
- 12) Install the back insert (see Page 26).
- 13) Pull the covers over the supports with proper alignment (see Page 24).
- 14) Reattach and close the backrest pad (see Page 24).



3.6.6 Options/Accessories

3.6.6.1 Replacing/Retrofitting Safety Belts and Positioning Systems

For the installation of the following add-on components, see the Instructions for Use (Qualified Personnel) – order number 647G771:

- Safety belts:
 - Strap guide
 - Lap belt
 - Four-point belt
 - Five-point belt
- Positioning aids:
 - Abductor
 - Chest and shoulder support
 - Fixation vest
 - Groin strap
 - Hook-and-loop foot straps
 - Pelvic band (for installation information, consult the instructions that come with the product)

3.6.6.2 Replacing/Retrofitting other Options

For the installation of the following options, see the Instructions for Use (Qualified Personnel) – order number 647G771:

- Canopy adapter
- Summer/winter slipsack
- Anti-slip lining
- Neck support
- Lumbar pad
- Padding

For the installation of the following options, see the Instructions for Use (User) – order number 647G770:

- Canopy
- Rain cover
- Armrests
- Grab rail
- Tray
- Cup holder
- Buggy Board
- Incontinence cover
- Foot block for shortening the lower leg length

4 Appendices

4.1 Technical Data

Dimensions (cm) and weights (kg)

Outdoor mobility base	Size 1	Size 2 ¹⁾
Overall width	60	70
Front wheel diameter, "swiveling" front wheels	17	17
Front wheel diameter, "fixed" front wheels	28	---
Rear wheel diameter	28	28
Push handle height (min./max.)	71/116	71/116
Seat tilt (seating unit angle (min./max.))	-35°/+10° or -10°/+35°	-35°/+10° or -10°/+35°
Max. load capacity ²⁾	55	55
Max. load storage basket ²⁾	7	7
Weight of mobility base	10.5	11.5
Folded size without seat (LxWxH)	79x60x47	79x67x47
Min. folded size with seat facing forwards; seat tilted backwards 10°, back angle 100° (LxWxH)	90x60x53 ³⁾	97x67x59

Multifunctional seating unit	Size 1	Size 2
Seat width	20 – 30	26 – 35
Seat depth with seat depth reducer (option)	19 – 31 possible from 14 cm	24 – 40
Backrest height	41 – 61	56 – 70
Backrest angle	80° – 180°	80° – 180°
Height of shoulder strap slots (min./max.)	30/45	30/45
Width of shoulder strap slots	5	5
Lower leg length	19 – 31	20 – 37
Max. load capacity ²⁾	40	40
Max. load capacity for use in a wheelchair accessible vehicle ⁴⁾	40	40
Weight	7	8.5
Folded size with lateral padding (LxWxH)	58x37x42	59x43x58

¹⁾ The outdoor mobility base with fixed front wheels in size 2 is available only as a custom fabrication.

²⁾ The load capacity differs between the outdoor mobility base and the seating unit:

- Seating unit (max. 40 kg) + own weight of the seating unit, size 1 (7.5 kg) = 47.5 kg
- Outdoor mobility base (max. 55 kg) – fully loaded seating unit (47.5 kg) = 7.5 kg for other accessories + weight in storage basket

³⁾ Folded dimensions of the outdoor mobility base with fixed front wheels: 97x60x53 cm.

⁴⁾ Observe the information in the section "Use in a Wheelchair Accessible Vehicle".

4.2 Maintenance Schedule

4.2.1 Maintenance Schedule – Outdoor Mobility Base

Maintenance Schedule		Kimba neo (outdoor mobility base)	Customer:	
Item	Area	Inspection (checklist)		
Serial number:		Function/setting (depending on equipment)	Inspected for damage/deformation	Screw connections inspected*
1	Caster wheels	Tyres (wear)	x	
		Air pressure (only with pneumatic tyres)	x	
		Fork/caster wheel axles	X	x
		Swivel lock mechanism	x	x
		Running behaviour of the wheels (concentricity)	x	
2	Rear wheels	Tyres (wear)	x	
		Air pressure (only with pneumatic tyres)	x	
		Bearings	x	x
		Quick-release lock	x	x
		Running behaviour of the wheels (concentricity)	x	
3	Seat adapter/seat adjustment	Ratchet mechanism	x	x
		Seat adapter	x	x
		Porter cylinder	x	x
		Porter cylinder ease of operation	x	
		Angle adjustment lock	x	x
		Bowden cable	x	x
4	Suspension/rear wheel linkage (with wheel lock)	Stability	x	x
		Spring tension	x	x
		Mounting points	x	x
		Wheel lock mechanism	x	x
		Wheel lock operation	x	
5	Frame	Rivet joints/screw connections	x	x
		Mounting points	x	x
		Folding tube/fixed tube head	x	x
		Folding mechanism	x	x
6	Push bar	Ratchet joints	x	x
		Angle adjustment	x	
		Push bar cover	x	
Accessories				
7	Storage bag		x	x
Do the wheelchair settings match the user's requirements?				
The maintenance service was performed by:			on:	

* For some components: rivet joints or attachment checked

4.2.2 Seating Unit Maintenance Schedule

Maintenance Schedule		Kimba neo (multifunctional seating unit)	Customer:	
Item	Area	Inspection (checklist)		
Serial number:		Function/setting (depending on equipment)	Inspected for damage/deformation	Screw connections inspected
1	Pads/covers	Surface (wear)	x	
		Closures	x	x
2	Back frame	Angle adjustment (clamping)	x	x
		Back insert	x	x
		Knob (attachment + function)	x	x
		Clamp tie-bar	x	x
		Tilt activation mechanism/Bowden cable	x	x
3	Footplate	Height setting	x	x
		Footplate lock	x	x
4	Knee angle assembly	Depth adjustment	x	x
		Angle adjustment	x	x
		Struts/clamping lever	x	x
5	Base frame (seat frame)	Clamping of the knee angle assembly	x	x
		Quick-release lock	x	x
		Seat angle adjustment activation mechanism	x	x
		Bowden cable	x	x
		Seat adapter (engages audibly)	x	
6	Standard supports	Width adjustment	x	x
		Padding	x	
Accessories				
7	Armrests	Tripod springs (locking mechanism)	x	x
8	Grab rail/padding for grab rail	Tripod springs (locking mechanism)	x	x
		Surface (wear)	x	
9	Pelvic band	Toothed belt (locking mechanism)	x	x
10	Canopy/canopy adapter	Angle adjustment	x	x
		Plug connection to the adapter	x	x
		Ratchet function	x	x
11	Tray	Tripod springs (locking mechanism)	x	x
		Angle adjustment	x	x
		Depth adjustment	x	x
12	Thoracic supports	Width adjustment	x	x
		Height adjustment	x	x
13	Chest and shoulder support	Attachment buckles	x	x
		Seams	x	
14	Fixation vest	Attachment straps	x	x
15	Belts (4/5-point)	Attachment and strap guide buckles	x	x
		Seams/belting	x	
		Buckle	x	
16	Abductor	Depth adjustment	x	x
Do the wheelchair settings match the user's requirements?				
The maintenance service was performed by:			on:	

Kundenservice/Customer Service

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